

CLAIMS

1. A floor mop capable of using both sides, wherein the floor mop comprises:

5 a supporting pad on which velcro tapes are attached so that each floor cloth is attached on both surfaces, and having a rectangular planar structure;

a rotation section having

a first rotation zone of which a lower part is hinge-combined at side portion of the supporting pad for being capable of rotating;

10 a second rotation zone which a rotation incision portion is formed at a central part of an upper part thereof and is incised therein toward the direction of the length, and which a lower part thereof is hinge-combined at an upper part of the first rotation zone for being capable of rotating, thereby the second rotation zone is selectively attached on one of both surfaces of the supporting pad; and

15 a roller which is oppositely connected to the rotation incision portion for being capable of rotating;

a connection member which is formed perpendicularly with a center of the roller as a starting point, and which a stick is hinge-combined at an upper part thereof; and

20 means for fixing said one of both surfaces of the supporting pad at the rotation section so that the stick is capable of pushing and pulling collectively the supporting pad and the rotation section, said means for fixing being mounted at the rotation section and the supporting pad.

2. The floor mop capable of using both sides according to claim 1, wherein  
25 the roller comprises

a pair of hinge combination sections which are hinge-combined at inside surface of the rotation incision portion for rotating; and

a connection shaft which is connected between the hinge combination sections, with a relatively smaller diameter than that of the hinge combination sections.

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3. The floor mop capable of using both sides according to claim 2, wherein the rotation incision portion further comprises protrusions therein which are inserted and hinge-combined at both sides of the roller.

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4. The floor mop capable of using both sides according to claim 3, wherein said means for fixing comprises permanent magnets and steel portions to be combined with the permanent magnet by a magnetic force.

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5. The floor mop capable of using both sides according to claim 4, wherein the permanent magnets and the steel portions are positioned oppositely at the second rotation zone and the supporting pad respectively with the floor cloth therebetween.

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6. The floor mop capable of using both sides according to claim 5, wherein the permanent magnets are respectively attached at both sides on both surfaces of the second rotation zone.

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7. The floor mop capable of using both sides according to claim 6, wherein each of the steel portions is attached on both surfaces of the supporting pad corresponding to the position of each of the permanent magnets for being capable of a magnetic combination between the permanent magnets and the steel portions.

8. The floor mop capable of using both sides according to claim 1, wherein the rotation incision portion of the second rotation zone is formed of a pair of sockets which are oppositely formed at both sides with a predetermined gap.

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9. The floor mop capable of using both sides according to claim 8, wherein the roller comprises

a pair of hinge combination sections which are respectively inserted at each of the sockets; and

10 a connection shaft which is connected between the hinge combination sections, having a relatively smaller diameter than the hinge combination sections.

10. The floor mop capable of using both sides according to claim 9, wherein further comprises socket protrusions which are inserted and hinge-combined at a center of one surface of the hinge combination sections on inside surfaces of each of said sockets.

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11. The floor mop capable of using both sides according to claim 10, wherein further comprises ball bearings which are installed on outside periphery of each of the combination sections and are point-contacted with inside periphery of each of said sockets combined with the combination sections.

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12. The floor mop capable of using both sides according to claim 11, wherein said means for fixing comprises a permanent magnet and a steel portion to be combined with the permanent magnet by a magnetic force.

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13. The floor mop capable of using both sides according to claim 12, wherein the permanent magnet and the steel portion are positioned oppositely at the roller and the supporting pad, respectively.

5 14. The floor mop capable of using both sides according to claim 13, wherein the permanent magnet is mounted on an outside periphery of the connection shaft of the roller at a position which is symmetric to the connection member and is installed inside of the incision portion formed toward the direction of the axis of the connection shaft.

10 15. The floor mop capable of using both sides according to claim 14, wherein the steel portion is fixed on both surfaces of the supporting pad at a position which is opposite to the incision portion for being combined with the permanent magnet by a magnetic force.